

Title (en)

PROCESS FOR REDUCING THE FUEL PRESSURE IN A FUEL INJECTION SYSTEM

Title (de)

VERFAHREN ZUR REDUZIERUNG DES KRAFTSTOFFDRUCKES IN EINER KRAFTSTOFFEINSPRITZEINRICHTUNG

Title (fr)

PROCEDE PERMETTANT DE REDUIRE LA PRESSION DU CARBURANT DANS UN SYSTEME D'INJECTION DE CARBURANT

Publication

EP 0745184 B1 19981028 (DE)

Application

EP 95919966 A 19950601

Priority

- DE 9500713 W 19950601
- DE 4445586 A 19941220

Abstract (en)

[origin: US5711274A] PCT No. PCT/DE95/00713 Sec. 371 Date Oct. 25, 1996 Sec. 102(e) Date Oct. 25, 1996 PCT Filed Jun. 1, 1995 PCT Pub. No. WO96/19659 PCT Pub. Date Jun. 27, 1996A system and method for reducing the fuel pressure in a fuel injection system after the internal combustion engine to be supplied has been shut off, in which a high fuel pressure built up in a high-pressure reservoir chamber (common rail) by a high-pressure feed pump, is relieved into the supply tank via control valves that control the injection event and are provided on the injection valves that communicate with the common rail. For purposes of this pressure relief, the control valves are triggered such that they connect a pressure chamber of the injection valve with the common rail or the supply tank so briefly that the pressure urging the valve member of the injection valves in the opening direction remains below an opening pressure of the injection valves, and this triggering process of the control valves is repeated until a desired pressure in the common rail is reached.

IPC 1-7

F02M 47/02; **F02M 69/46**; **F02M 55/02**

IPC 8 full level

F02D 41/04 (2006.01); **F02D 41/38** (2006.01); **F02M 37/00** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 55/02** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01); **F02M 69/46** (2006.01)

CPC (source: EP KR US)

F02D 41/042 (2013.01 - EP US); **F02D 41/3827** (2013.01 - EP US); **F02D 41/3872** (2013.01 - EP US); **F02M 47/02** (2013.01 - KR); **F02M 47/027** (2013.01 - EP US); **F02M 55/02** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 69/462** (2013.01 - EP US); **F02D 2250/31** (2013.01 - EP US)

Cited by

DE102005012998B3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 5711274 A 19980127; DE 4445586 A1 19960627; DE 59504070 D1 19981203; EP 0745184 A1 19961204; EP 0745184 B1 19981028; JP H09509716 A 19970930; KR 100378722 B1 20030619; KR 970701309 A 19970317; WO 9619659 A1 19960627

DOCDB simple family (application)

US 69687096 A 19961025; DE 4445586 A 19941220; DE 59504070 T 19950601; DE 9500713 W 19950601; EP 95919966 A 19950601; JP 51939695 A 19950601; KR 19960704519 A 19960819